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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Wescott et al.
Serial No. : 10/649,229
Filed : August 26, 2003
Title : BINDING MOIETIES FOR FIBRIN

Art Unit : 1653
Examiner : Karen C. Carlson

MAIL STOP AMENDMENT
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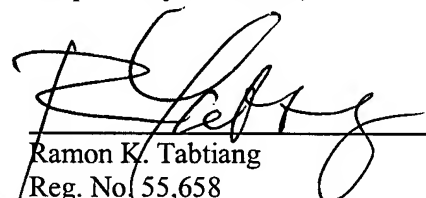
Applicants submit the enclosed PTO-1449 Form.

Under 35 U.S.C. § 120, this application relies on the earlier filing date of application serial number 09/627,806, filed on July 28, 2000. Some of the references cited herein were submitted to and/or cited by the Office in the prior application and, therefore, are not provided in this application. These references include Items AP-AT and Items BK to CE. Copies of the other non-US patent documents listed on the attached form PTO-1449 are enclosed.

This statement is being filed before the receipt of a first Office Action on the merits. Please apply any charges or credits to Deposit Account No. 06-1050.

Respectfully submitted,

Date: 3 January 2005



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Substitute Form PTO-1449

(Modified)

U.S. Department of Commerce
Patent and Trademark Office

Attorney's Docket No.

10280-077002

Application No.

10/649,229

**Information Disclosure Statement
by Applicant**

(Use several sheets if necessary)

(37 CFR 1.98(b))

Applicant

Wescott et al.

Filing Date

August 26, 2003

Group Art Unit

1653

U.S. Patent Documents

Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
	AA	5,223,409	6/19/1993	Ladner <i>et al.</i>			
	AB	6,001,809	12/14/1999	Thorsett <i>et al.</i>			
	AC	4,808,405	02/28/1989	Smith <i>et al.</i>			
	AD	5,021,556	06/04/1991	Srinivasan			
	AE	5,075,099	12/24/1991	Srinivasan <i>et al.</i>			
	AF	5,632,968	05/27/1997	Goldenberg			
	AG	5,364,612	11/15/1997	Goldenberg			
	AH	5,364,613	11/15/1994	Sieving <i>et al.</i>			
	AI	5,367,080	11/22/1994	Toner <i>et al.</i>			
	AJ	5,674,469	10/07/1997	Jablonski			
	AK	5,720,934	02/24/1998	Dean <i>et al.</i>			
	AL	5,849,261	12/15/1998	Dean <i>et al.</i>			
	AM	5,879,658	03/09/1999	Dean <i>et al.</i>			
	AN	5,886,142	03/23/1999	Thakur <i>et al.</i>			
	AO	2003/0143158	07/31/2003	Wescott <i>et al.</i>			

Foreign Patent Documents or Published Foreign Patent Applications

Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
	AP	EP 329363 A1	02/13/1989	Europe				
	AQ	WO 96/01644	01/25/1996	WIPO				
	AR	WO 96/36361	11/21/1996	WIPO				
	AS	WO 97/14804	04/24/1997	WIPO				
	AT	WO 98/45331	10/15/1998	WIPO				
	AU	WO 95/28967	11/02/1995	WIPO				
	AV	WO 96/23524	08/08/1996	WIPO				
	AW	WO 97/18841	05/29/1997	WIPO				
	AX	WO 97/47329	12/18/1997	WIPO				

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Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 10280-077002	Application No. 10/649,229
Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR §1.98(b))		Applicant Wescott et al.	
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Foreign Patent Documents or Published Foreign Patent Applications								
Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
	AY	WO 98/05364	02/12/1998	WIPO				
	AZ	WO 98/16256	04/23/1998	WIPO				
	BA	WO 98/17324	04/30/1998	WIPO				
	BB	WO 98/18496	05/07/1998	WIPO				
	BC	WO 98/18497	05/07/1998	WIPO				
	BD	WO 98/53857	12/03/1998	WIPO				
	BE	WO 98/18495	05/07/1998	WIPO				
	BF	WO 98/18498	05/07/1998	WIPO				
	BG	WO 98/18500	10/29/1998	WIPO				
	BH	WO 98/47538	10/29/1998	WIPO				
	BI	WO 98/52618	11/26/1998	WIPO				
	BJ	WO 98/57666	12/23/1998	WIPO				

Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
	BK	Alavi et al., <i>Radiology</i> , 175: 79-85 (1990)
	BL	Alexander et al., " <i>Magnetic Resonance in Medicine</i> , 40(2): 298-310 (1998).
	BM	Bautovich et al., <i>J. NucZ. Med.</i> , 35: 195-202 (1994)
	BN	Bevan, M., et al., Accession number T05787, 1998.
	BO	Edelman et al., <i>Radiology</i> , 177(1): 45- 50 (1990)
	BP	Harker et al., <i>Am. J. Cardiology</i> , 60: 20B-28B (1987)
	BQ	Hermans et al., <i>Semin. Thromb. Hemost.</i> , 8: 11-24 (1982)
	BR	Kakkar et al., <i>Lancet</i> , 1: 540-542 (1970)
	BS	Knight et al., <i>Radiology</i> , 156: 509-614 (1986)
	BT	Lanza et al., <i>Ultrasound in Med. &Bio.</i> , 23(6): 863-870 (1997)
	BU	Lauffer, <i>Chemical Review</i> , 87:901-927 (1987)
	BV	Moskowitz and Budzynski, <i>Biochemistry</i> , 33: 12937-12944 (1994)

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Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
	BW	Murphy, L. et al., accession Number T34584, 1998.
	BX	Muto et al., <i>Radiology</i> , 189 (suppl): 303(1993)
	BY	Nielsen, E. et al., <i>J. of Mol. Biol.</i> , Vol. 222, pp. 835-841, 1991.
	BZ	Olexa et al., <i>Biochemistry</i> , 20: 6139-6146 (1981).
	CA	Palabrica et al., <i>Proc. Natl. Acad. Sci.</i> , 86: 1036-1040 (1989)
	CB	Redenbach, M. et al., <i>Molecular Microbiology</i> , Vol. 21, No. 1, pp. 77-96, 1996.
	CC	Rosebrough et al., <i>J. Nuc. Med.</i> 31: 1048-1054 (1990)
	CD	Spraggon et al., <i>Nature</i> , 389: 455-462 (1997)
	CE	Thakur et al., <i>Throm. Res.</i> , 9: 345-357 (1976)
	CF	Achyuthan, K.E. et al., "Factor XIIIa-Derived Peptides Inhibit Transglutaminase Activity", <i>The Journal of Biological Chemistry</i> , Vol. 268, No. 28, pp. 21284-21292, 1993.
	CG	Achyuthan, K.E. et al., "Hierarchies in the Binding of Human Factor XIII, Factor XIIIa, and Endothelial Cell Transglutaminase to Human Plasma Fibrinogen, Fibrin, and Fibronectin", <i>Molecular and Cellular Biochemistry</i> , Vol. 162, pp. 43-49, 1996.
	CH	Achyuthan, K.E. et al., "The Binding Sites on Fibrin(ogen) for Guinea Pig Liver Transglutaminase Are Similar to Those of Blood Coagulation Factor XIII", <i>The Journal of Biological Chemistry</i> , Vol. 263, No. 28, pp. 14296-14301, 1988.
	CI	Anderson and Miller, "Fiber Optic Immunochemical Sensor for Continuous, Reversible Measurement of Phenytoin," <i>Clin. Chem.</i> , 34(7): 1417-1421 (1988).
	CJ	Bevan, M., et al., Accession number T05787, 1999.
	CK	Fairbrother et al., "Novel Peptides Selected to Bind Vascular Endothelial Growth Factor Target the Receptor-Binding Site," <i>Biochemistry</i> , 37: 17754-17764 (1998) .
	CL	Fischman, A.J. et al., "A Ticket to Ride: Peptide Radiopharmaceuticals", <i>J. Nucl. Med.</i> , Vol. 34, pp. 2253-2263, 1993.
	CM	Goodrich et al., "A Quantitative Study of Ramped Radio Frequency, Magnetization Transfer, and Slab Thickness in Three-Dimensional Time-of-Flight Magnetic Resonance Angiography in a Patient Population," <i>Investigative Radiology</i> , 31(6): 323-332 (1996).
	CN	Greenberg, C.S. et al., "Isolation of a Fibrin-Binding Fragment from Blood Coagulation Factor XIII Capable of cross-Linking Fibrin(ogen), <i>Biochem. J.</i> , Vol. 256, pp. 1013-1019, 1988.
	CO	Greenberg, C.S. et al., "Transglutaminases: Multifunctional Cross-Linking Enzymes that Stabilize Tissues", <i>The FASEB Journal</i> , Vol. 5, pp. 3071-3077, 1991.
	CP	Greenwald R.B. et al., "PEG Thiazolidine-2-Thione, a Novel Reagent for Facile Protein Modification: Conjugation of Bovine Hemoglobin", <i>Bioconjugate Chem.</i> , Vol. 7, pp. 638-641, 1996.
	CQ	Gronas et al., "Flow-Independent Angiography for Peripheral Vascular Disease: Initial In-Vivo Results," <i>Journal of Magnetic Resonance Imaging</i> , 7(4): 637-643 (1997).
	CR	Hai, T.T et al., Synthesis of Water-Soluble, Nonimmunogenic Polyamide Cross-Linking Agents", <i>Bioconjugate Chem.</i> , Vol. 9, pp. 645-654, 1998.

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Other Documents (include Author, Title, Date, and Place of Publication)		
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	CS	Huang, L. et al., "Coupling of Antibodies with Liposomes", <i>Loposome Technology</i> , Vol. III, pp. 51-62.
	CT	Hutchinson, "Evanescent Wave Biosensors," <i>Molec. Biotechnology</i> , Vol. 3, pp. 47-54 (1995).
	CU	Joppich, M. and Luisi, P.L., "Peptides Flanked by Two Polymer Chains, 1", <i>Makromol. Chem.</i> , Vol. 180, pp. 1381-1384, 1979.
	CV	Kim, H.C. et al., "The Complete Amino Acid Sequence of the Human Transglutaminase K Enzyme Deduced from the Nucleic Acid Sequences of cDNA Clones", <i>The Journal of Biological Chemistry</i> , Vol. 266, No. 1, pp. 536-539, 1991.
	CW	Kim, S.Y. et al., "The Structure of the Transglutaminase 1 Enzyme", <i>The Journal of Biological Chemistry</i> , Vol. 269, No. 45, pp. 27979-27986, 1994.
	CX	Klibanov, A.L. et al., "Amphipathic Polyethyleneglycols effectively Prolong the Circulation Time of Liposomes", <i>FEBS</i> , Vol. 268, No. 1, pp. 235-237, 1990.
	CY	Lai, T.S. et al., "Carboxyl-Terminal Truncation of Recombinant Factor XIII A-Chains", <i>The Journal of Biological Chemistry</i> , Vol. 269, No.40, pp. 24596-24601, 1994.
	CZ	Leserman, L.D. et al., "Covalent Coupling of Monoclonal Antibodies and Protein A to Liposomes: Specific Interaction with Cells in Vitro and in Vivo", <i>Loposome Technology</i> , Vol. III, pp. 29-40.
	DA	Malmberg et al., "Selection of Binders from Phage Displayed Antibody Libraries Using the BIAcore TM Biosensor," <i>J. Immunol. Methods</i> , Vol. 198(1), pp. 51-57 (1996).
	DB	Merrifield, "Solid Phase Peptide Synthesis. I. The Synthesis of a Tetrapeptide," <i>J. Am. Chem. Soc.</i> , 85: 2149-2154 (1963).
	DC	Murphy, L. et al., Accession Number T34584, 1998.
	DD	Karlheinz P. et al., "Construction and Functional Evaluation of a Single-Chain Antibody Fusion Protein With Fibrin Targeting and Thrombin Inhibition After Activation by Factor Xa", <i>Circulation</i> , Vol. 101, pp. 1158-1164, (2000).
	DE	Phillips, M.A. et al., "Genomic Structure of Keratinocyte Transglutaminase", <i>The Journal of Biological Chemistry</i> , Vol. 267, No. 4, pp. 2282-2286, 1992.
	DF	Schuck, "Reliable Determination of Binding Affinity and Kinetics Using Surface Plasmon Resonance Biosensors," <i>Current Opinion in Biotechnology</i> , Vol. 8, pp. 498-502 (1997).

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